Exploring Aeronautics							
2009 Mathematics Priority Academic Student Skills Oklahoma Mathematics							
Activity/Lesson	State	Standards					
Activity/Lesson	State	Standards					
Fundamentals of			Compare, estimate, and determine the				
Aeronautics (145-176)	OK	MA.5.4.1.a	measurement of angles.				
Acionautics (140-170)	OIC	IVI/1.5.4.1.d	Convert basic measurements of volume, mass				
			and distance within the same system for metric				
Fundamentals of			and customary units (e.g., inches to feet, hours				
Aeronautics (145-176)	OK	MA.5.4.1.c	to minutes, centimeters to meters).				
/ toronaddoo (110 110)		1417 (.0. 1. 1.0	Formulate questions, design investigations,				
			consider samples, and collect, organize, and				
			analyze data using observation, measurement,				
			surveys, or experiments (e.g., how far can 5th				
Fundamentals of			graders throw a softball based on where it first				
Aeronautics (145-176)	OK	MA.5.5.1.b	hits the ground?).				
Airplane Control(209-			Compare, estimate, and determine the				
256)	OK	MA.5.4.1.a	measurement of angles.				
			Formulate questions, design investigations,				
			consider samples, and collect, organize, and				
			analyze data using observation, measurement,				
			surveys, or experiments (e.g., how far can 5th				
			graders throw a softball based on where it first				
Science of Flight	OK	MA.5.5.1.b	hits the ground?).				
			Describe rules that produce patterns found in				
			tables, graphs, and models, and use variables				
			(e.g., boxes, letters, pawns, number cubes, or				
			other symbols) to solve problems or to describe				
Integrating with			general rules in algebraic expression or				
Aeronautics	OK	MA.5.1.1	equation form.				
			Apply the concept of place value of whole				
			numbers through hundred millions (9 digits) and				
Integrating with			model, read, and write decimal numbers through				
Aeronautics	OK	MA.5.2.1.a	the thousandths.				
			Compare and translate displays of data and				
			justify the selection of the type of table of graph				
Integrating with			(e.g., charts, tables, bar graphs, pictographs,				
Aeronautics	OK	MA.5.5.1.a	line graphs, circle graphs, Venn diagrams).				
			Formulate questions, design investigations,				
			consider samples, and collect, organize, and				
			analyze data using observation, measurement,				
			surveys, or experiments (e.g., how far can 5th				
Integrating with			graders throw a softball based on where it first				
Aeronautics	OK	MA.5.5.1.b	hits the ground?).				
			Compare and translate displays of data and				
			justify the selection of the type of table of graph				
Intro to Aeronautics		NAA 5 5 4	(e.g., charts, tables, bar graphs, pictographs,				
(109-123)	OK	MA.5.5.1.a	line graphs, circle graphs, Venn diagrams).				

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			Compare and translate displays of data and
O = : = := +: f: = M = + = = = / 4 O 4			justify the selection of the type of table of graph
Scientific Method(124-		NAA 5 5 4 -	(e.g., charts, tables, bar graphs, pictographs,
144)	OK	MA.5.5.1.a	line graphs, circle graphs, Venn diagrams).
		Exploring Aero	pnautics
		2009 Mathen	
		Priority Academic S	tudent Skills
Oklahoma Mathemati	cs		
Grade 6			
Activity/Lesson	State	Standards	
			Organize, construct displays, and interpret data
Fundamentals of			to solve problems (e.g., data from student
Aeronautics (145-176)	OK	MA.6.5.1	experiments, tables, diagrams, charts, graphs).
			Write and solve one-step equations with one
			variable using number sense, the properties of
			operations, and the properties of equality (e.g.,
The Resource Center	OK	MA.6.1.4	1/3x = 9).
			Convert compare, and order desimals, fractions
The Resource Center	OK	MA.6.2.1	Convert compare, and order decimals, fractions, and percents using a variety of methods.
The Resource Center	OK	IVIA.U.Z. I	Generalize and extend patterns and functions
			using tables, graphs, and number properties
			(e.g., number sequences, prime and composite
Integrating with			numbers, recursive patters like the Fibonacci
Aeronautics	ОК	MA.6.1.1	numbers).
Integrating with	OIX	17/7 (. O. 1 . 1	Write algebraic expressions and simple
Aeronautics	ОК	MA.6.1.2	equations that correspond to a given situation.
			Organize, construct displays, and interpret data
Integrating with			to solve problems (e.g., data from student
Aeronautics	OK	MA.6.5.1	experiments, tables, diagrams, charts, graphs).
			Organize, construct displays, and interpret data
Intro to Aeronautics			to solve problems (e.g., data from student
(109-123)	OK	MA.6.5.1	experiments, tables, diagrams, charts, graphs).
			Organize, construct displays, and interpret data
Scientific Method(124-			to solve problems (e.g., data from student
144)	OK	MA.6.5.1	experiments, tables, diagrams, charts, graphs).
		Exploring Aero	nautics
		2009 Mathem	
		Priority Academic S	
Oklahoma Mathemati	cs		
Grade 7			
Activity/Lesson	State	Standards	
			Compare, translate, and interpret between
			displays of data (e.g., multiple sets of data on
			the same graph, data from subsets of the same
Fundamentals of			population, combinations of diagrams, tables,
Aeronautics (145-176)	UK	MA.7.5.1	charts, and graphs).

Integrating with Aeronautics	ОК	MA.7.5.1	Compare, translate, and interpret between displays of data (e.g., multiple sets of data on the same graph, data from subsets of the same population, combinations of diagrams, tables, charts, and graphs).
Intro to Aeronautics (109-123)	ОК	MA.7.5.1	Compare, translate, and interpret between displays of data (e.g., multiple sets of data on the same graph, data from subsets of the same population, combinations of diagrams, tables, charts, and graphs).
Scientific Method(124-144)	ок	MA.7.5.1	Compare, translate, and interpret between displays of data (e.g., multiple sets of data on the same graph, data from subsets of the same population, combinations of diagrams, tables, charts, and graphs).
		Frankring Acre	
		Exploring Aero 2009 Mathen	
		Priority Academic S	
Oklahoma Mathematic	cs		
Grade 8			
Activity/Lesson	State	Standards	
Fundamentals of Aeronautics (145-176)	OK	MA.8.3.2	Develop the Pythagorean Theorem and apply the formula to find the length of line segments, the shortest distance between two points on a graph, and the length of an unknown side of a right triangle.
Fundamentals of Aeronautics (145-176)		MA.8.5.1	Select, analyze and apply data displays in appropriate formats to draw conclusions and solve problems.
Wings(177-208)	ОК	MA.8.4.1	Develop and apply formulas to find the surface area and volume of rectangular prisms, triangular prisms, and cylinders (in terms of pi).
Science of Flight	ОК	MA.8.5.1	Select, analyze and apply data displays in appropriate formats to draw conclusions and solve problems.
Science of Flight	ок	MA.8.5.2	Determine how samples are chosen (random, limited, biased) to draw and support conclusions about generalizing a sample to a population (e.g., is the average height of a men's college basketball team a good representative sample for height predictions?).
Integrating with Aeronautics	ок	MA.8.3.2	Develop the Pythagorean Theorem and apply the formula to find the length of line segments, the shortest distance between two points on a graph, and the length of an unknown side of a right triangle.